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(57) Abstract :

The present invention addresses the need for an efficient and effective solution to detect and block command injection attacks, which are a common form of cyberattack aimed at compromising system security. Conventional techniques for identifying these attacks have proven inadequate. This invention introduces a system and method that leverages machine learning techniques to accurately detect and prevent command injection attacks. Suspicious instructions are identified and blocked by the system through the application of machine learning algorithms that analyze command inputs for potential command injection threats. This solution enhances the overall security posture by providing an additional layer of defence against command injection attacks, while also facilitating integration with existing security protocols.

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